



Form PTO-1449 (Modified)

U.S. Department of Commerce  
Patent and Trademark Office

Attorney Docket No.

01017/32953A

Serial No.

09/604,325

Applicant

Zsebo et al.

Filing Date

June 26, 2000

Group

1647

**INFORMATION DISCLOSURE  
STATEMENT****U.S. PATENT DOCUMENTS**

*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
Bob	A1	3,898,837	08/12/1975	Boege	73	23.1	—
	A2	4,275,056	06/23/1981	Takaku et al.	424	99	—
	A3	4,338,397	07/06/1982	Gilbert et al.	435	68	—
	A4	4,353,242	10/12/1982	Harris et al.	73	23.1	—
	A5	4,438,032	03/20/1984	Golde et al.	260	112	—
	A6	4,634,665	01/06/1987	Axel et al.	435	68	—
	A7	4,695,542	09/22/1987	Yokota et al.	435	68	—
	A8	4,703,008	10/27/1987	Lin	435	240.2	—
	A9	4,714,680	12/22/1987	Civin	435	240.25	—
	A10	4,721,096	01/26/1988	Naughton et al.	128	1 R	—
	A11	4,722,998	02/02/1988	Cantor et al.	530	351	—
	A12	4,808,611	02/28/1989	Cosman	514	12	—
	A13	4,810,643	03/07/1989	Souza	435	68	—
	A14	4,845,078	07/04/1989	Masaoka	514	8	—
	A15	4,847,325	07/11/1989	Shadle et al.	525	54.1	—
	A16	4,877,729	10/31/1989	Clark et al.	435	68	—
	A17	4,879,227	11/07/1989	Clark et al.	435	70	—
	A18	4,959,314	09/25/1990	Mark et al.	435	69.1	—
	A19	4,959,455	09/25/1990	Clark et al.	530	351	—
	A20	4,965,204	10/23/1990	Civin	435	240.27	—
	A21	5,087,570	02/11/1992	Weissman et al.	435	240.1	—
	A22	5,119,315	06/02/1992	Kemp et al.	364	498	—
	A23	5,121,337	06/09/1992	Brown	364	498	—
	A24	5,599,703	02/04/1997	Davis et al.	435	373	—
	A25	5,620,685	04/15/1997	Nishi et al.	424	85.1	—
	A26	5,641,670	06/24/1997	Treco et al.	435	240.2	—
	A27	5,767,074	06/16/1998	Besmer et al.	514	12	—
	A28	5,772,992	06/30/1998	Bauer et al.	424	85.2	—
	A29	5,786,323	06/28/1998	Nakahata	514	2	—
Bob	A30	5,935,565	08/10/1999	Besmer et al.	424	85.1	—

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## FOREIGN PATENT DOCUMENTS

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							Yes	No
beb	B1	0 232 707	08/19/1987	EPO	C12N	15/00		
	B2	EP 0 845 268	06/03/1998	EPO	A61K	38/18		
	B3	JP 8325294	12/10/1996	JP	C07K	14/52		X
	B4	JP 62-223126	10/01/1987	JP	A61K	35/12		X
	B5	JP 09154578 A	06/17/1997	JP	C12N	15/02	ABS	
	B6	JP 62-107796	05/19/1997	JP	C12F	21/00	ABS	
	B7	WO 89/04452	05/18/1989	PCT	F41H	5/04		
	B8	WO 92/03459	03/05/1992	PCT	C07H	15/12		
	B9	WO 92/07074	04/30/1992	PCT	C12N	15/12		X
	B10	WO 93/21936	11/11/1993	PCT	A61K	35/16		
	B11	WO 95/06112	03/02/1995	PCT	C12N	5/08		
	B12	WO 95/28479	10/26/1995	PCT	C12N	5/08		X
	B13	WO 98/18924	05/07/1998	PCT	C12N	15/12		
beb	B14	WO 98/23773	06/04/1998	PCT	C12Q	1/02		

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	C1	<del>Abstract, Kokai, October 1, 1987, "Human hematopoietic stem cell growth factor purification and characterization," Dialog File 357 DBA Accession No. 88-01369 of JP 62-223126.</del>
beb	C2	Bodine et al., "Combination of Interleukins 3 and 6 Preserves Stem Cell Function in Culture and Enhances Retrovirus-Mediated Gene Transfer Into Hematopoietic Stem Cells," <i>Proc. Nat'l Acad. Sci., USA</i> , 86:8897-8901 (1989).
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	C4	Bowie et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> , 247:1306-1310 (1990).
	C5	Broxmeyer et al., "Cell-Free Granulocyte Colony Inhibiting Activity Derived from Human Polymorphonuclear Neutrophils," <i>Exp. Hematol.</i> , 5:87-102 (1977).
	C6	Dexter, T.M., "Haemopoietic Growth Factors," I, 45(2):337-349 (1989).
	C7	Dick et al., "Introduction of New Genes into Hematopoietic Stem Cells," <i>J. Cell. Biol.</i> , Supplement 11A, p.187 (1987) (ABSTRACT D 026).
	C8	Dick et al., "Introduction of Selectable Gene into Primitive Stem Cells Capable of Long-Term Reconstitution of the Hemopoietic System of W/W <sup>-</sup> Mice," <i>Cell</i> , 42:71-79 (1985).
	C9	Frömmel et al., "An Estimate of the Effect of Point Mutation and Natural Selection on the Rate of Amino acid Replacement in Proteins," <i>J. Mol. Evol.</i> , 21:233-257 (1985).
	C10	Fung et al., "Molecular cloning of cDNA for murine interleukin-3," <i>Nature</i> , 307:233-237 (1984).
beb	C11	Gough et al., "Molecular Cloning of cDNA Encoding a Murine Haematopoietic Growth Regulator, Granulocyte-Macrophage Colony Stimulating Factor," <i>Nature</i> , 309:763-767 (1984).

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<b>BBB</b>	C12	Grabbe, J. et al., "Stem Cell Factor, a Novel Cutaneous Growth Factor for Mast Cells and Melanocytes," <i>Arch. Dermatol. Res.</i> , 287:78-84 (1994).
	C13	<del>Griehnik, J.M. et al., "The SCE/KIT Pathway Plays a Critical Role in the Control of Normal Human Melanocyte Homeostasis," <i>J. Invest. Dermatol.</i>, 111:233-238 (1998).</del>
<b>BBB</b>	C14	Hiraoka et al., "Further Characterization of the Biological Properties of Human Hematopoietic Survival and Growth Factor," <i>Expl. Cell. Biol.</i> , 57:27-34 (1989).
	C15	Hiraoka et al., "Production of Human Hematopoietic Survival and Growth Factor by a Myeloid Leukemia Cell Line (KPB-M15) and Placenta as Detected by a Monoclonal Antibody," <i>Cancer Research</i> , 47:5025-5030 (1987).
	C16	Hiraoka et al., "Human Hematopoietic Survival and Growth Factor," <i>Cell Biology International Reports</i> , 10(5):347-355 (1986).
	C17	Hiraoka et al., "Monoclonal Antibodies Against Human Hematopoietic Survival and Growth Factor," <i>Biomed. Biochim. Acta</i> , 46(5):419-427 (1987).
	C18	Hiraoka et al., "In Vitro Effect of Murine Peritoneal Exudate Cells Activated with a Streptococcal Preparation, OK-432, on Hematopoietic Stem Cells," <i>ACTA Hematol. Japan</i> , 45:82-90 (1982).
<b>SEP 12 2003</b>	C19	Hiraoka et al., <i>Cancer Research</i> , 47(19):5025-5030 (1987); Abstract, <del>Accession No. 87301445 of Dialog File 155-</del>
<b>RECEIVED</b>	C20	Hollands, "Differentiation of Embryonic Haemopoietic Stem Cells from Mouse Blastocysts Growth in Vitro," <i>Development</i> , 102:135-141 (1988).
	C21	Humphries et al., "Aplastic Anemia and Stem Cell Biology," in <i>Aplastic Anemia: Stem Cell Biology and Advances in Treatment</i> , Alan R. Liss, Inc., New York, New York, pp. 3-12 (1984)
	C22	Jones et al., "Cyclic Hematopoiesis: Animal Models," <i>Exp. Hematol.</i> , 11:571-580 (1983).
	C23	Kamamoto et al., "Establishment of Two Ph <sup>1</sup> Chromosome-Positive Cell Lines, KPB-M8 and KPB-M15," <i>Jpn. J. Clin. Oncol.</i> , 16:107-115 (1986).
	C24	Kawasaki et al., "Molecular Cloning of a Complementary DNA Encoding Human Macrophage-Specific Colony-Stimulating Factor (CSF-1)," <i>Science</i> , 230:291-296 (1985).
	C25	King, R.C. et al., in <i>A Dictionary of Genetics</i> , Fifth Edition, Oxford University Press, p. 138 (November, 1996).
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<b>BBB</b>	C32	Lyman et al., "Molecular Cloning of a Ligand for the flt3/flk-2 Tyrosine Kinase Receptor: A Proliferative Factor for Primitive Hematopoietic Cells," <i>Cell</i> , 75:1157-1167 (1993).

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	C34	MacKenzie, M.A.F. et al., "Activation of the Receptor Tyrosine Kinase Kit is Required for the Proliferation of Melanoblasts in the Mouse Embryo," <i>Developmental Biology</i> , 192:99-107 (1997).
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	C37	Martin, P., "HEL Cells: A New Human Erythroleukemia Cell Line with Spontaneous and Induced Globin Expression," <i>Science</i> , 216:1233-1235 (1982).
	C38	Mayer, T.C. et al., "An Experimental Analysis of the Pigment Defect Caused by Mutations at the W and SI Loci in Mice," <i>Developmental Biology</i> , 18:62-75 (1968).
	C39	McDermott et al., "Inhibition of Cell Proliferation in Renal Failure and Its Significance to the Uraemic Syndrome: A Review," <i>Scot. Med. J.</i> , 20:317-327 (1975).
	C40	McNeice et al., "A Growth Factor Produced by WEHI-3 Cells for Murine High Proliferative Potential GM-Progenitor Colony Forming Cells," <i>Cell Biol. Int. Rep.</i> , 6:243-251 (1982).
	C41	McNiece et al., "Studies on the Myeloid Synergistic Factor From 5637: Comparison with Interleukin-1 Alpha," <i>Blood</i> , 73:919-923 (1989).
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	C44	Moore, M.A.S., "Clinical Implications of Positive and Negative Hematopoietic Stem Cell Regulators," <i>Blood</i> , 78:1-19 (1991).
	C45	Mori et al., "Myeloproliferative Sarcoma Virus Stimulates Pluripotent Hematopoietic Stem Cells and Provokes Tumoral Transformation of the Hematopoietic Microenvironment in Vitro," <i>Leukemia Research</i> , 7:77-86 (1983).
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	C48	Ngo et al., "Computational Complexity Protein Structure Prediction, and the Levinthal Paradox," In <i>The Protein Folding Problem and Tertiary Structure Prediction</i> , Merz et al., (eds.), 1994 pp.433-495
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	C51	Sarvella, P.A. et al., "Steel, A New Dominant Gene in the House Mouse, With Effects on Coat Pigment and Blood," <i>The Journal of Histology</i> , 47:123-128 (1956).
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	C54	Spangrude et al., "Purification and Characterization of Mouse Hematopoietic Stem Cells," <i>Science</i> , 214:58-62 (1988).
	C55	Stanley et al., "Regulation of Very Primitive, Multipotent, Hemopoietic Cells by Hemopoietin-1," <i>Cell</i> , 45:667-674 (1986).
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